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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,571	04/09/2004	Hideki Morozumi	NGBCP006	1972

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EXAMINER	
PHAN, RAYMOND NGAN	

ART UNIT	PAPER NUMBER
2111	

DATE MAILED: 07/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/821,571	MOROZUMI, HIDEKI	
	Examiner	Art Unit	
	Raymond Phan	2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 April 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-33* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-33* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *06122006*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

Part III DETAILED ACTION

Notice to Applicant(s)

1. This action is responsive to the following communications: amendment filed on April 24, 2006.

2. This application has been examined. Claims 1-33 are pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless --
>
> (e) the invention was described in-
> (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
> (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

4. Claims 1-33 are rejected under 35 U.S.C. § 102(e) as being anticipated by Saito et al. (US Pub No. 2004/0073697).

In regard to claims 1, 10, 27-27, 30-31, Saito et al. disclose a data processing method, comprising steps of: providing a first device (i.e. A device) adapted to be connected to a second device, comprising a communicator having a first interface function (i.e. device side) and a second interface function (i.e. host side) defined in an asymmetric interface standard (i.e. OTG standard) (see figure 1b, para 98-102); a first communication processor 50 (i.e. host controller) operable to transmit data to the second device through the use of the first interface function (see figure 4, para 132-133); a second communication processor 60 (i.e. peripheral controller)

operable to transmit a signal for processing the data to the second device through the use of second interface function (see figure 4, para 132-134); connecting a second device to the first device (see figure 1b, para 98-102); detecting whether the second device has at least one of the first interface function and the second interface function (see para 98-102); activating the first communication processor, in a case where it is detected that the second device has the second interface function (see para 134-139); and activating the second communication processor, in a case where it is detected that the second device has the first interface function (see para 134-139).

In regard to claims 2, 11, Saito et al. disclose wherein the data includes at least one of image data, music data and motion picture data (see para 318).

In regard to claims 3, 12, Saito et al. disclose wherein: it is detected that the second device has the first interface function in a case where a first type connector (i.e miniA plug) of a cable defined under the interface standard is connected to the communicator (see para 98-103); and it is detected that the second device has the second interface function in a case where a second type connector (i.e. miniB plug) of a cable defined under the interface standard is connected to the communicator (see para 98-103).

In regard to claims 4, 13, Saito et al. disclose wherein: the interface standard is an On-The-Go standard of a USB (see figure 4, para 132-134); the first interface function is a device-side interface function of the USB (see para 132-134); and the second interface function is a host-side interface function of the USB (see figure 4, para 132-134).

In regard to claims 5, 14, Saito et al. disclose wherein each of the steps of transmitting the data and the signal is performed on the basis of one of a plurality

of USB classes in accordance with at least one of a type of the second device and an application executed in the second device (see para 241-247)

In regard to claims 6, 15, Saito et al. further disclose steps of: detecting whether the first interface function and the second interface function are assigned to the first device and the second device correctly (see para 101-107); and activating a negotiation protocol (HNP) in a case where it is detected that the first interface function and the second interface function are incorrectly assigned, so that each of the first device and the second device has the other one of the first interface function and the second interface function (see para 110-117).

In regard to claims 7, 16, Saito et al. disclose wherein the first device is a digital camera device, and the second device is a PDA device having both of the first interface function and the second interface function (see para 318).

In regard to claims 8, 17, Saito et al. disclose wherein the first device is a digital camera device, and the second device is a printer having both of the first interface function and the second interface function (see para 318).

In regard to claims 9, 18, Saito et al. disclose wherein: the step of transmitting the data is performed in a case where the first device is a digital camera device and the second device is a printer having a host-side interface of a USB (see para101-107); and the step of transmitting the signal is performed in a case where the first device is a digital camera device and the second device is a printer having a device-side interface of the USB (see para 101-107).

In regard to claims 19, 24, 28-29, 32-33, Saito et al. disclose a data processing method, comprising steps of: providing a first device (i.e. camera) comprising a storage (i.e. flash memory) which stores data therein (see figure 1B), and a communicator having a device-side interface function of a USB (see figure

4, para 101-107); connecting a second device to the first device (see figure 1b); selecting one of a plurality of USB classes in accordance with at least one of a type of the second device and an application executed in the second device (see para 101-107; and transmitting the data, from the first device to the second device, through use of the device-side interface function and based on the selected one of the USB classes (see para 101-107).

In regard to claims 20, 25, Saito et al. further disclose steps of: providing, in the first device, a plurality of interface descriptors each of which is associated with one of the USB classes (see para 113-117); and transmitting all of the interface descriptors, in a case where the second device is adapted to at least one of the USB classes (see para 120-123).

In regard to claim 21, Saito et al. disclose wherein the interface descriptors includes: a first interface descriptor for a first USB class used in a case where the second device is a printer having a host-side interface function of the USB (see para 123-127); and a second interface descriptor for a second USB class used in a case where the first device serves as an external storage of the second device (see para 123-127);

In regard to claim 22, Saito et al. disclose wherein the first USB class is a still image capture device class (i.e. camera) and the second USB class is a mass storage class (i.e. external hard drive) (see para 117, 318).

In regard to claim 23, Saito disclose a second interface descriptor associated with a vendor-extended USB class corresponding to the USB class (see para 123-127; transmitting, from the first device to the second device, the first interface descriptor and the second descriptor; and activating the second descriptor in a case

where the first device receives a command for activating the second descriptor from the second device (see para 123-127).

Response to Amendment

5. Applicant's amendment and arguments, see on pages 1-15, filed on April 24, 2006, with respect to the rejections of claims 1-33 under 35USC102(e)/103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Saito et al.

Conclusion

6. Claims 1-33 are rejected.

7. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

Osakada et al. (US No. 6,308,239) disclose a interface switching apparatus and switching control method.

8 Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (571) 272-3630. The examiner can normally be reached on Monday-Friday from 6:30AM- 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Primary, Paul Myers can be reached on (571) 272-3639 or via e-mail addressed to paul.myers@uspto.gov. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to **[raymond.phan@uspto.gov]**.

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see hop://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 central telephone number is (571) 272-2100.

RP

Raymond Phan
July 5, 2006

MARK H. RINEHART
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100